CLAIMS

1. Cosmetic makeup or skincare composition comprising a dispersion of particles of a grafted ethylenic polymer in a liquid fatty phase, the composition being capable of forming a deposit having a transfer index in the presence of sebum of less than 4.

2. Composition according to Claim 1, characterized in that the deposit has a transfer index in the presence of sebum of less than or equal to 3, preferably less than or equal to 2.

3. Composition according to Claim 1 or 2, characterized in that the deposit has a transfer index in the presence of sebum of less than or equal to 1.5, preferably less than or equal to 1.

4. Composition according to any one of the preceding claims, characterized in that the grafted ethylenic polymer comprises an ethylenic skeleton which is insoluble in the said liquid fatty phase and side chains bonded covalently to the said skeleton and soluble in the said liquid fatty phase.

5. Composition according to any one of the preceding claims, characterized in that the grafted ethylenic polymer is a grafted acrylic polymer.

6. Composition according to any one of the preceding claims, characterized in that the ethylenic polymer is dispersed in the absence of additional stabilizer on the surface of the particles of the

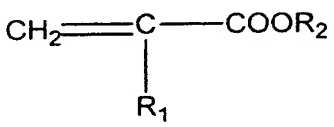
grafted polymer.

7. Composition according to any one of the preceding claims, characterized in that the grafted ethylenic polymer in dispersion is an acrylic polymer obtainable by free-radical polymerization in an organic polymerization medium:

- of at least one acrylic monomer and, optionally, at least one additional, non-acrylic, vinyl monomer, to form the said insoluble skeleton; and
- of at least one macromonomer containing a polymerizable end group for forming side chains, the said macromonomer having a weight-average molecular mass of greater than or equal to 200, the amount of polymerized macromonomer representing from 0.05% to 20% by weight of the polymer.

8. Composition according to the preceding claim, characterized in that the acrylic monomer is selected from, alone or in a mixture, the following monomers, and their salts:

-(i) the (meth)acrylates of formula:



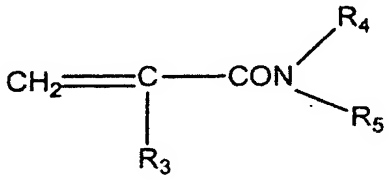
in which:

- R_1 denotes a hydrogen atom or a methyl group;
- R_2 represents a group selected from:
  - a linear or branched alkyl group containing from 1 to 6 carbon atoms, the said group possibly

comprising in its chain one or more heteroatoms selected from O, N and S; and/or possibly comprising one or more substituents selected from -OH, halogen atoms (F, Cl, Br or I) and -NR'R" with R' and R", which may be identical or different, selected from linear or branched C_1-C_4 alkyls; and/or possibly being substituted with at least one polyoxyalkylene group, in particular with polyoxyethylene and/or polyoxypropylene, the said polyoxyalkylene group consisting of a repetition of 5 to 30 oxyalkylene units;

- a cyclic alkyl group containing from 3 to 6 carbon atoms, the said group possibly comprising in its chain one or more heteroatoms selected from O, N and S, and/or possibly comprising one or more substituents selected from OH and halogen atoms (F, Cl, Br, I);

-(ii) the (meth)acrylamides of formula:



in which:

- R_3 denotes a hydrogen atom or a methyl group;
- R_4 and R_5, which may be identical or different, represent a hydrogen atom or a linear or branched alkyl group containing from 1 to 6 carbon atoms, which may comprise one or more substituents selected from -OH, halogen atoms (F, Cl, Br or I) and -NR'R" with R' and R", which may be identical or different, selected from

linear or branched C_1-C_4 alkyls; or

- R_4 represents a hydrogen atom and R_5 represents a 1,1-dimethyl-3-oxobutyl group;

-(iii) (meth)acrylic monomers comprising at least one carboxylic, phosphoric or sulfonic acid function, such as acrylic acid, methacrylic acid and acrylamido-propanesulfonic acid.

9. Composition according to Claim 7 or 8, characterized in that the acrylic monomer is selected from methyl (meth)acrylate, ethyl (meth)acrylate, propyl (meth)acrylate, butyl (meth)acrylate and isobutyl (meth)acrylate; methoxyethyl (meth)acrylate; ethoxyethyl (meth)acrylate; trifluoroethyl methacrylate; dimethylaminoethyl methacrylate, diethylaminoethyl methacrylate, 2-hydroxypropyl (meth)acrylate, 2-hydroxyethyl (meth)acrylate; dimethylaminopropylmethacrylamide; (meth)acrylic acid; and the salts thereof.

10. Composition according to any one of Claims 7 to 9, characterized in that the acrylic monomer is selected from methyl acrylate, methoxyethyl acrylate, methyl methacrylate, 2-hydroxyethyl methacrylate, (meth)acrylic acid, dimethylaminoethyl methacrylate, and mixtures thereof.

11. Composition according to any one of Claims 7 to 10, characterized in that the grafted polymer comprises (meth)acrylic acid.

12. Composition according to any one of Claims 7 to 11, characterized in that the acrylic monomers comprise at least (meth)acrylic acid and at least one monomer selected from the (meth)acrylates and the (meth)acrylamides described in sections (i) and (ii) in Claim 8.

13. Composition according to any one of Claims 7 to 12, characterized in that the acrylic monomers comprise at least (meth)acrylic acid and at least one monomer selected from C_1-C_3 alkyl (meth)acrylates.

14. Composition according to any one of the preceding claims, characterized in that the (meth)acrylic acid is present in an amount of at least 5% by weight, relative to the total weight of the polymer, in particular ranging from 5% to 80% by weight, preferably of at least 10% by weight, in particular ranging from 10% by weight to 70% by weight, preferentially of at least 15% by weight, in particular ranging from 15% to 60% by weight.

15. Composition according to any one of Claims 7 to 14, characterized in that the grafted acrylic polymer does not contain an additional, non-acrylic, vinyl monomer.

16. Composition according to any one of Claims 7 to 15, characterized in that the grafted acrylic polymer is obtainable by free-radical

polymerization of one or more acrylic monomers and of one or more additional, non-acrylic, vinyl monomers and of the said macromonomer.

17. Composition according to any one of Claims 7 to 14 and 16, characterized in that the non-acrylic, additional vinyl monomers are selected from:

- vinyl esters of formula: R_6-COO-CH=CH_2
in which R_6 represents a linear or branched alkyl group containing from 1 to 6 carbon atoms, or a cyclic alkyl group containing from 3 to 6 carbon atoms and/or an aromatic group, for example of benzene, anthracene or naphthalene type;
- non-acrylic vinyl monomers comprising at least one carboxylic, phosphoric or sulfonic acid function, such as crotonic acid, maleic anhydride, itaconic acid, fumaric acid, maleic acid, styrenesulfonic acid, vinylbenzoic acid, vinylphosphoric acid and salts thereof;
- non-acrylic vinyl monomers comprising at least one tertiary amine function, such as 2-vinylpyridine or 4-vinylpyridine;
- and mixtures thereof.

18. Composition according to any one of Claims 7 to 17, characterized in that the acrylic monomers represent from 50% to 100% by weight, preferably from 60% to 100% by weight, preferentially

from 70% to 100% by weight of the mixture of acrylic monomers + optional non-acrylic vinyl monomers.

19. Composition according to any one of Claims 7 to 18, characterized in that the macromonomer comprises at one of the ends of the chain a polymerizable end group selected from a vinyl group or a (meth)acrylate group, and preferably a (meth)acrylate group.

20. Composition according to any one of Claims 7 to 19, characterized in that the macromonomer has a weight-average molecular mass of greater than or equal to 300, preferentially greater than or equal to 500 and more preferentially greater than 600.

21. Composition according to any one of Claims 7 to 16, characterized in that the macromonomer has a weight-average molecular mass (Mw) ranging from 200 to 100 000, preferably ranging from 500 to 50 000, preferentially ranging from 800 to 20 000, more preferentially ranging from 800 to 10 000 and even more preferentially ranging from 800 to 6000.

22. Composition according to any one of Claims 7 to 20, characterized in that the polymerized macromonomer represents from 0.1% to 15% by weight of the total weight of the polymer, preferably from 0.2% to 10% by weight and preferentially from 0.3% to 8% by weight.

23. Composition according to any one of the

preceding claims, characterized in that the liquid fatty phase comprises a liquid organic compound selected from:

- liquid organic compounds having a total solubility parameter according to the Hansen solubility space of less than or equal to 18 $(MPa)^{1/2}$;
- monoalcohols having a total solubility parameter according to the Hansen solubility space of less than or equal to 20 $(MPa)^{1/2}$; and
- mixtures thereof.

24. Composition according to the preceding claim, characterized in that the said liquid organic compound is a non-volatile oil.

25. Composition according to any one of the preceding claims, characterized in that the liquid fatty phase is a non-silicone-based liquid fatty phase.

26. Composition according to the preceding claim, characterized in that the non-silicone-based liquid fatty phase is composed of at least 50% by weight of at least one non-silicone-based organic liquid compound selected from:

- non-silicone-based organic liquid compounds having a total solubility parameter according to the Hansen solubility space of less than or equal to 18 $(MPa)^{1/2}$;
- liquid monoalcohols having a total solubility parameter according to the Hansen solubility space of less than or equal to 20 $(MPa)^{1/2}$; and

- mixtures thereof.

27. Composition according to Claim 25 or 26, characterized in that the non-silicone-based liquid fatty phase contains less than 50% by weight of silicone-based liquid organic compounds having a total solubility parameter according to the Hansen solubility space of less than or equal to 18 $(MPa)^{1/2}$.

28. Composition according to Claim 25 or 26, characterized in that the non-silicone-based liquid fatty phase contains no silicone-based liquid organic compounds.

29. Composition according to any one of Claims 25 to 28, characterized in that the macromonomer is a carbon-based macromonomer.

30. Composition according to the preceding claim, characterized in that the carbon-based macromonomer is selected from:

- (i) homopolymers and copolymers of linear or branched C_8-C_{22} alkyl acrylate or methacrylate, containing a polymerizable end group selected from vinyl or (meth)acrylate groups;
- (ii) polyolefins containing a polymerizable ethylenically unsaturated end group.

31. Composition according to Claim 29 or 30, characterized in that the carbon-based macromonomer is selected from:

- (i) poly(2-ethylhexyl acrylate) macromonomers with a

mono(meth)acrylate end group; poly(dodecyl acrylate) macromonomers with a mono(meth)acrylate end group; poly(dodecyl methacrylate) macromonomers; poly(stearyl acrylate) macromonomers with a mono(meth)acrylate end group; and poly(stearyl methacrylate) macromonomers with a mono(meth)acrylate end group;

- (ii) polyethylene macromonomers, polypropylene macromonomers, macromonomers of polyethylene/polypropylene copolymer, macromonomers of polyethylene/polybutylene copolymer, polyisobutylene macromonomers, polybutadiene macromonomers, polyisoprene macromonomers, polybutadiene macromonomers; poly(ethylene/butylene)polyisoprene macromonomers, these macromonomers having a (meth)acrylate end group.

32. Composition according to any one of Claims 29 to 31, characterized in that the carbon-based macromonomer is selected from:

- (i) poly(2-ethylhexyl acrylate) macromonomers with a mono(meth)acrylate end group, and poly(dodecyl acrylate) macromonomers with a mono(meth)acrylate end group;

- (ii) poly(ethylene/butylene) methacrylate.

33. Composition according to any one of Claims 29 to 32, characterized in that the grafted polymer is selected from the polymers obtained by polymerization:

- of methyl acrylate and of a polyethylene/polybutylene

macromonomer with a methacrylate end group, in particular in a solvent selected from isododecane, isononyl isononanoate, octyldodecanol, diisostearyl malate and a C_{12}-C_{15} alkyl benzoate;

- of methoxyethyl acrylate and of a polyethylene/polybutylene macromonomer with a methacrylate end group, in particular in isododecane;

- of methyl acrylate/methyl methacrylate monomers and of a polyethylene/polybutylene macromonomer with a methacrylate end group, in particular in isododecane;

- of methyl acrylate/acrylic acid monomers and of a polyethylene/polybutylene macromonomer with a methacrylate end group, in particular in isododecane;

- of methyl acrylate/dimethylaminoethyl methacrylate monomers and of a polyethylene/polybutylene macromonomer with a methacrylate end group, in particular in isododecane;

- of methyl acrylate/2-hydroxyethyl methacrylate monomers and of a polyethylene/polybutylene macromonomer with a methacrylate end group, in particular in isododecane.

34. Composition according to any one of Claims 25 to 33, characterized in that the grafted polymer is a non-silicone-based grafted polymer.

35. Composition according to the preceding claim, characterized in that the non-silicone-based grafted polymer contains predominantly a carbon-based

macromonomer which optionally contains not more than 7% by weight of silicone-based macromonomer, relative to the total weight of the polymer.

36. Composition according to Claim 34 or 35, characterized in that the silicone-based grafted polymer is free from carbon-based macromomer.

37. Composition according to any one of Claims 1 to 24, characterized in that the liquid fatty phase is a silicone-based liquid fatty phase.

38. Composition according to the preceding claim, characterized in that the silicone-based liquid fatty phase is composed of at least 50% by weight of at least one silicone-based organic liquid compound selected from silicone-based organic liquid compounds having a total solubility parameter according to the Hansen solubility space of less than or equal to 18 $(MPa)^{1/2}$.

39. Composition according to Claim 27 or 38, characterized in that the silicone-based organic liquid compound comprises a volatile silicone oil.

40. Composition according to the preceding claim, characterized in that the volatile silicone oil is selected from octamethylcyclotetrasiloxane, decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane, heptamethylhexyltrisiloxane, heptamethyloctyltrisiloxane, octamethyltrisiloxane, decamethyltetrasiloxane, and mixtures thereof.

41. Composition according to Claim 27 or 38, characterized in that the silicone-based organic liquid compound comprises a non-volatile silicone oil.

42. Composition according to the preceding claim, characterized in that the non-volatile silicone oil is selected from non-volatile polydialkylsiloxanes; polydimethylsiloxanes containing alkyl, alkoxy or phenyl groups, which are pendent or at the end of a silicone chain, these groups containing from 2 to 24 carbon atoms; phenyl silicones; polysiloxanes modified with fatty acids (especially of C_8-C_{20}), fatty alcohols (especially of C_8-C_{20}) or polyoxyalkylenes (especially polyoxyethylene and/or polyoxypropylene); amino polysiloxanes; polysiloxanes containing hydroxyl groups; fluoro polysiloxanes comprising a fluorinated group that is pendent or at the end of a silicone chain, containing from 1 to 12 carbon atoms, all or some of the hydrogens of which are substituted by fluorine atoms; and mixtures thereof.

43. Composition according to any one of Claims 37 to 42, characterized in that the liquid fatty phase contains less than 50% by weight of non-silicone-based liquid organic compounds.

44. Composition according to Claim 26 or 43, characterized in that the non-silicone-based liquid organic compound is selected from non-silicone-based liquid organic compounds having a total solubility

parameter according to the Hansen solubility space of less than 18 $(MPa)^{1/2}$; liquid monoalcohols having a total solubility parameter according to the Hansen solubility space of less than or equal to 20 $(MPa)^{1/2}$; and mixtures thereof.

45. Composition according to the preceding claim, characterized in that the non-silicone-based organic liquid compound having a total solubility parameter according to the Hansen solubility space of less than or equal to 18 $(MPa)^{1/2}$ is selected from carbon-based, hydrocarbon-based and fluoro oils, alone or in a mixture; linear, branched and/or cyclic alkanes, optionally volatile; esters, and especially linear, branched or cyclic esters having at least 6 carbon atoms; ketones, and especially ketones having at least 6 carbon atoms; and ethers, and especially ethers having at least 6 carbon atoms.

46. Composition according to Claim 23 or 44, characterized in that the monoalcohols having a total solubility parameter according to the Hansen solubility space of less than or equal to 20 $(MPa)^{1/2}$ are selected from aliphatic fatty monoalcohols having 6 to 30 carbon atoms, the hydrocarbon chain containing no substitution group, and especially oleyl alcohol, decanol and linoleyl alcohol.

47. Composition according to any one of the preceding claims, characterized in that the liquid

fatty phase contains a non-silicone-based volatile oil.

48. Composition according to the preceding claim, characterized in that the non-silicone-based volatile oil is selected from isododecane, isodecane and isohexadecane.

49. Composition according to any one of Claims 37 to 46, characterized in that the liquid fatty phase contains no non-silicone-based liquid organic compounds.

50. Composition according to any one of the preceding claims, characterized in that the non-volatile oil is present in an amount ranging from 0.1% to 80% by weight, relative to the total weight of the composition, and preferably ranging from 3% to 50% by weight.

51. Composition according to any one of the preceding claims, characterized in that it comprises a volatile oil in an amount ranging from 1% to 90% by weight, relative to the total weight of the composition, and preferably ranging from 5% to 70% by weight.

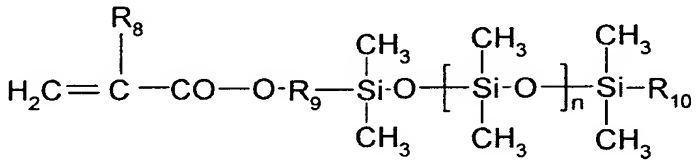
52. Composition according to any one of Claims 37 to 51, characterized in that the macromonomer is a silicone-based macromonomer.

53. Composition according to the preceding claim, characterized in that the silicone-based macromonomer is an organopolysiloxane macromonomer, and

preferably a polydimethylsiloxane macromonomer.

54. Composition according to Claim 52 or 53, characterized in that the macromonomer is selected from polydimethylsiloxanes with a mono(meth)acrylate end group, and especially monomethacryloyloxypropyl polydimethylsiloxanes.

55. Composition according to any one of Claims 52 to 54, characterized in that the silicone-based macromonomer is selected from the macromonomers of formula (II) below:



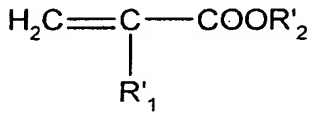
(II)

in which R_8 denotes a hydrogen atom or a methyl group; R_9 denotes a divalent hydrocarbon-based group having 1 to 10 carbon atoms and optionally contains one or two ether bonds -O-; R_{10} denotes an alkyl group having 1 to 10 carbon atoms, in particular 2 to 8 carbon atoms; n denotes an integer ranging from 1 to 300, preferably ranging from 3 to 200 and preferentially ranging from 5 to 100.

56. Composition according to any one of Claims 37 to 55, characterized in that the grafted acrylic polymer is obtainable by free-radical polymerization in the polymerization medium:

- of a principal acrylic monomer selected from C_1-C_3 alkyl (meth)acrylates, alone or in a mixture, and

optionally of one or more additional acrylic monomers selected from acrylic acid, methacrylic acid and the alkyl (meth)acrylates of formula (I):



(I)

in which:

- R'_1 denotes a hydrogen atom or a methyl group;
- R'_2 represents
  - a linear or branched alkyl group containing from 1 to 6 carbon atoms, the said group comprising in its chain one or more oxygen atoms and/or comprising one or more substituents selected from -OH, halogen atoms (F, Cl, Br, I) and -NR'R", where R' and R", which are identical or different, are selected from linear or branched C_1-C_3 alkyls;
  - a cyclic alkyl group containing from 3 to 6 carbon atoms, it being possible for the said group to comprise in its chain one or more oxygen atoms and/or to comprise one or more substituents selected from OH and halogen atoms (F, Cl, Br, I);
  - and salts thereof, to form the said insoluble skeleton; and
- of a silicone-based macromonomer.

57. Composition according to the preceding claim, characterized in that R'_2 denotes a group selected from the groups methoxyethyl, ethoxyethyl, trifluoroethyl; 2-hydroxyethyl, 2-hydroxypropyl,

dimethylaminoethyl, diethylaminoethyl, dimethylaminopropyl.

58. Composition according to Claim 56 or 57, characterized in that the principal acrylic monomer is selected from methyl (meth)acrylate, ethyl (meth)acrylate, n-propyl (meth)acrylate, isopropyl (meth)acrylate, and mixtures thereof.

59. Composition according to any one of Claims 56 to 58, characterized in that the principal acrylic monomer is selected from methyl acrylate, methyl methacrylate and ethyl methacrylate.

60. Composition according to Claim 56, characterized in that the additional acrylic monomer is selected from (meth)acrylic acid, methoxyethyl (meth)acrylate, ethoxyethyl (meth)acrylate, trifluoroethyl methacrylate, dimethylaminoethyl methacrylate, diethylaminoethyl methacrylate, 2-hydroxypropyl (meth)acrylate, 2-hydroxyethyl (meth)acrylate, and salts thereof.

61. Composition according to Claim 56 or 60, characterized in that the additional acrylic monomer is selected from acrylic acid, methacrylic acid.

62. Composition according to any one of Claims 37 to 61, characterized in that the grafted polymer is selected from the polymers obtained by polymerizing:

- methyl acrylate and a monomethacryloyloxypropyl

polydimethylsiloxane macromonomer having a weight-average molecular weight ranging from 800 to 6000, in particular in decamethylcyclopentasiloxane or phenyltrimethicone;

- methyl acrylate, acrylic acid and monomethacryloyloxypropyl polydimethylsiloxane macromonomer having a weight-average molecular weight ranging from 800 to 6000, in particular in decamethylcyclopentasiloxane or phenyltrimethicone.

63. Composition according to any one of Claims 37 to 62, characterized in that the grafted polymer is a silicone-based grafted polymer.

64. Composition according to the preceding claim, characterized in that the silicone-based grafted polymer contains predominantly a silicone-based macromonomer which contains optionally not more than 7% by weight of carbon-based macromonomer, based on the total weight of the polymer.

65. Composition according to Claim 63 or 64, characterized in that the silicone-based grafted polymer is free from carbon-based macromonomer.

66. Composition according to any one of the preceding claims, characterized in that the grafted polymer has a weight-average molecular mass (Mw) of between 10 000 and 300 000, in particular between 20 000 and 200 000, better still between 25 000 and 150 000.

67. Composition according to any one of the preceding claims, characterized in that the particles of grafted polymer have an average size ranging from 10 to 400 nm, preferably ranging from 20 to 200 nm.

68. Composition according to any one of the preceding claims, characterized in that the grafted ethylenic polymer is a film-forming polymer.

69. Composition according to any one of the preceding claims, characterized in that the grafted polymer is present in an amount ranging from 0.5% to 45% by weight, relative to the total weight of the composition, preferably ranging from 1% to 30% by weight and preferentially ranging from 2% to 25% by weight.

70. Composition according to any one of the preceding claims, characterized in that it comprises a colorant.

71. Composition according to the preceding claim, characterized in that the colorant is a pulverulent colorant, selected in particular from pigments and nacres.

72. Composition according to any one of the preceding claims, characterized in that it comprises a cosmetic ingredient selected from vitamins, moisturizers, emollients, free-radical scavengers, thickeners, trace elements, softeners, sequesterants, perfumes, alkalifying or acidifying agents,

preservatives, sunscreens, surfactants, antioxidants, gums, waxes, propellants or mixtures thereof.

73. Cosmetic composition according to any one of the preceding claims, characterized in that it is in the form of a suspension, dispersion, solution, gel, emulsion, especially oil-in-water (O/W) or water-in-oil (W/O), or multiple (W/O/W or polyol/O/W or O/W/O) emulsion, in the form of a cream, paste, mousse, vesicle dispersion, in particular of ionic or nonionic lipids, or in the form of a two-phase or multiphase lotion, or spray or powder.

74. Cosmetic composition according to any one of the preceding claims, characterized in that it is in anhydrous form.

75. Composition according to any one of the preceding claims, characterized in that the composition is a product for making up the skin.

76. Foundation comprising a composition according to any one of the preceding claims.

77. Foundation composition comprising a dispersion of particles of a grafted ethylenic polymer in a liquid fatty phase as defined in one of Claims 1 to 69, and a colorant, especially pigments, nacres, or any other filler having an optical effect.

78. Cosmetic assembly comprising:

a) a container delimiting at least one compartment, the said container being closed by a closing member; and

b) a composition disposed within the said compartment, the composition being in accordance with any one of the preceding claims.

79. Cosmetic assembly according to the preceding claim, characterized in that the container is formed at least partly of at least one thermoplastic material.

80. Cosmetic assembly according to Claim 78, characterized in that the container is formed at least partly of at least one non-thermoplastic material, in particular of glass or of metal.

81. Assembly according to any one of Claims 78 to 80, characterized in that, with the container in its closed position, the closing member is screwed onto the container.

82. Assembly according to any one of Claims 78 to 80, characterized in that, with the container in its closed position, the closing member is coupled with the container other than by screwing, in particular by snap-fastening, adhesive bonding or welding.

83. Assembly according to any one of Claims 78 to 82, characterized in that the composition is substantially at atmospheric pressure within the compartment.

84. Assembly according to any one of Claims 78 to 83, characterized in that the composition

is pressurized within the container.

85. Cosmetic method of making up or caring for the skin, comprising applying to the skin a cosmetic composition according to one of Claims 1 to 77.

86. Use of a composition according to one of Claims 1 to 77 for obtaining a deposit, in particular a makeup deposit, on the skin that has good transfer resistance, especially in the presence of sebum.

87. Use, in a cosmetic composition, of a dispersion of particles of a grafted ethylenic polymer in dispersion in a liquid fatty phase, the composition being capable in particular of forming a film having a deposit having a transfer index in the presence of sebum of less than 4, for obtaining a deposit, in particular a makeup deposit, on the skin that exhibits good transfer resistance, especially in the presence of sebum.